

## ABSTRACT OF THE DISCLOSURE

The present invention has been made in order to realize an optical signal receiving equipment that can suppress fluctuations in soft decision error correction capabilities in accordance with manufacturing difference in individual deciders or deterioration over time.

The optical signal receiving equipment includes: an optical-electrical converting means for converting received optical signals into electronic signals; a plurality of deciders for identifying the electronic signals converted by the optical-electrical converting means; a soft decision-identification means for computing identification signals related to the decision results by the plurality of deciders, and reliability information indicating a level of reliability of the identification signals; an error correction means for correcting error in the identification signals, by using the reliability information computed by the soft decision-identification means; and a control means for executing hard decision-identification of the electronic signals by using each of the plurality of deciders, and for correcting, based on each of the hard decision-identification results, thresholds in the plurality of deciders in the soft decision-identification means.